STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _____ *10/533, 906*

Source: _____ *IFWO*

Date Processed by STIC: _____ *11/01/2006*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
   http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: ___10/533,906___

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1_____Wrapped Nucleics / Wrapped Aminos   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2_____Invalid Line Length   The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3_____Misaligned Amino Numbering   The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4_____Non-ASCII   The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5_____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6_____PatentIn 2.0 "bug"   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7_____Skipped Sequences (OLD RULES)   Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8_____Skipped Sequences (NEW RULES)   Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9_____Use of n's or Xaa's (NEW RULES)   Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue n or Xaa represents.

10_____Invalid <213> Response   Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

11_____Use of <220>   ~~Sequence(s)____missing the <220> "Feature" and associated numeric identifiers and responses~~. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

12_____PatentIn 2.0 "bug"   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13_____Misuse of n/Xaa   "n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>

AMC – STIC Systems Branch – 03/02/06

RAW SEQUENCE LISTING   . DATE: 11/01/2006
PATENT APPLICATION: **US/10/533,906**   TIME: 12:17:23

Input Set : **A:\PTO.SS.txt**
Output Set: **N:\CRF4\11012006\J533906.raw**

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        3 <110> APPLICANT: Skanemejerier AB
        5 <120> TITLE OF INVENTION: NEW ENZYME AND ITS USE
        7 <130> FILE REFERENCE: 75086
C-->    9 <140> CURRENT APPLICATION NUMBER: US/10/533,906
C-->    9 <141> CURRENT FILING DATE: 2006-03-30
        9 <150> PRIOR APPLICATION NUMBER: US 60/320,139
       10 <151> PRIOR FILING DATE: 2003-04-24
       12 <150> PRIOR APPLICATION NUMBER: US 60/481,598
       13 <151> PRIOR FILING DATE: 2003-11-05
       15 <160> NUMBER OF SEQ ID NOS: 18
       17 <170> SOFTWARE: PatentIn version 3.2
```

Does Not Comply
Corrected Diskette Needed

(pg - 1 - 5)

ERRORED SEQUENCES

```
      145 <210> SEQ ID NO: 2
      146 <211> LENGTH: 1701
      147 <212> TYPE: DNA
      148 <213> ORGANISM: Unknown
      150 <220> FEATURE:
      151 <223> OTHER INFORMATION: Unknown
      153 <400> SEQUENCE: 2
E--> 154 gtccatctgg aaggcccagc atgagaggcc cggccgtcct cctcactgtg gctctggcca
     155 60
E--> 157 cgctcctggc tcccggggcc ggagcaccgg tacaaagtca gggctcccag aacaagctgc
     158 120
E--> 160 tcctggtgtc cttcgacggc ttccgctgga actacgacca ggacgtggac accccccaacc
     161 180
E--> 163 tggacgccat ggcccgagac ggggtgaagg cacgctacat dacccccgcc tttgtcacca
     164 240
E--> 166 tgaccagccc ctgccacttc accctggtca ccggcaaata tatcgagaac cacggggtgg
     167 300
E--> 169 ttcacaacat gtactacaac accaccagca aggtgaagct gccctaccac gccacgctgg
     170 360
E--> 172 gcatccagag gtggtgggac aacggcagcg tgcccatctg gatcacagcc cagaggcagg
     173 420
E--> 175 gcctgagggc tggctccttc ttctacccgg gcgggaacgt cacctaccaa ggggtggctg
     176 480
E--> 178 tgacgcggag ccggaaagaa ggcatcgcac acaactacaa aaatgagacg gagtggagag
     179 540
E--> 181 cgaacatcga cacagtgatg gcgtggttca cagaggagga cctggatctg gtcacactct
     182 600
E--> 184 acttcgggga gccggactcc acgggccaca ggtacggccc cgagtccccg gagaggaggg
```

Invalid Response:
If ⟨213⟩ Responses are
Artificial or unknown
Pls Explain
the Source
of genetic
material.
See Item
11 on
Error
Summary
Sheet.

RAW SEQUENCE LISTING   DATE: 11/01/2006
PATENT APPLICATION: US/10/533,906   TIME: 12:17:23

Input Set : A:\PTO.SS.txt
Output Set: N:\CRF4\11012006\J533906.raw

```
     185 660
E--> 187 agatggtgcg gcaggtggac cggaccgtgg gctacctccg ggagagcatc gcgcgcaacc
     188 720
E--> 190 acctcacaga ccgcctcaac ctgatcatca catccgacca cggcatgacg accgtggaca      780
     191 780
E--> 193 aacgggctgg cgacctggtt gaattccaca agttccccaa cttcaccttc cgggacatcg      840
     194 840
E--> 196 agtttgagct cctggactac ggaccaaacg ggatgctgct ccctaaagaa gggaggctgg      900
     197 900
E--> 199 agaaggtgta cgatgccctc aaggacgccc accccaagct ccacgtctac aagaaggagg      960
     200 960
E--> 202 cgttccccga ggccttccac tacgccaaca accccagggt cacacccctg ctgatgtaca     1020
     203 1020
E--> 205 gcgaccttgg ctacgtcatc catgggagaa ttaacgtcca gttcaacaat ggggagcacg     1080
     206 1080
E--> 208 gctttgacaa caaggacatg gacatgaaga ccatcttccg cgctgtgggc cctagcttca
     209 1140
E--> 211 gggcgggcct ggaggtggag ccctttgaga gcgtccacgt gtacgagctc atgtgccggc
     212 1200
E--> 214 tgctgggcat cgtgcccgag gccaacgatg ggcacctagc tactctgctg cccatgctgc
     215 1260
E--> 217 acacagaatc tgctcttccg cctgatgctc tgctggtcgc ggacggaccc tgcctcccca
     218 1320
E--> 220 gcttatccca ggccagaggc tgcatgccac tgtccccggc agcgccaacc cctgcttggc
     221 1380
E--> 223 tgttatggtg ctggtaataa gcctgcagcc caggtccaaa gcccccggcg agccggtccc
     224 1440
E--> 226 ataaccggcc ccctgcccct gcccctgctc ctgctcctcc ccttcgggcc ccctcctcct
     227 1500
E--> 229 gcaaaacccg ctcccgaagc ggcgctgccg tctgcagcca cgcggggggcg cgcgggagtc
     230 1560
E--> 232 ttctgcgggc gctggaacct gcagacccgg cctcggtcag ctgggagggg cccgccccgg
     233 1620
E--> 235 cacaaagcac ccatgggaat aaaggccaag ccgcgacagt cagcaaaaaa aaaaaaaaaa
     236 1680
E--> 238 aaaaaaaaaa aaaaaaaaaa a
     239 1701
     386 <210> SEQ ID NO: 5
     387 <211> LENGTH: 1878
     388 <212> TYPE: DNA
     389 <213> ORGANISM: Unknown
     391 <220> FEATURE:
     392 <223> OTHER INFORMATION: Unknown
     395 <220> FEATURE:
     396 <221> NAME/KEY: misc_feature
     397 <222> LOCATION: (905)..(905)
     398 <223> OTHER INFORMATION: n is a, c, g, or t
     400 <400> SEQUENCE: 5
E--> 401 gtccatctgg aaggcccagc atgagaggcc cggccgtcct cctcactgtg gctctggcca
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/533,906

DATE: 11/01/2006
TIME: 12:17:24

Input Set : A:\PTO.SS.txt
Output Set: N:\CRF4\11012006\J533906.raw

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        402 60
E--> 404 cgctcctggc tcccggggcc ggagcaccgg tacaaagtca gggctcccag aacaagctgc    120
        405 120
E--> 407 tcctggtgtc cttcgacggc ttccgctgga actacgacca ggacgtggac acccccaacc    7/80
        408 180
E--> 410 tggacgccat ggcccgagac ggggtgaagg cacgctacat gaccccgcc tttgtcacca
        411 240
E--> 413 tgaccagccc ctgccacttc accctggtca ccggcaaata tatcgagaac cacggggtgg
        414 300
E--> 416 ttcacaacat gtactacaac accaccagca aggtgaagct gccctaccac gccacgctgg
        417 360
E--> 419 gcatccagag gtggtgggac aacggcagcg tgcccatctg gatcacagcc cagaggcagg
        420 420
E--> 422 gcctgagggc tggctccttc ttctacccgg gcgggaacgt cacctaccaa ggggtggctg
        423 480
E--> 425 tgacgcggag ccggaaagaa ggcatcgcac acaactacaa aaatgagacg gagtggagag
        426 540
E--> 428 cgaacatcga cacagtgatg gcgtggttca cagaggagga cctggatctg gtcacactct
        429 600
E--> 431 acttcgggga gccggactcc acgggccaca ggtacggccc cgagtccccg gagaggaggg
        432 660
E--> 434 agatggtgcg gcaggtggac cggaccgtgg gctacctccg ggagagcatc gcgcgcaacc
        435 720
E--> 437 acctcacaga ccgcctcaac ctgatcatca catccgacca cggcatgacg accgtggaca
        438 780
E--> 440 aacgggctgg cgacctggtt gaattccaca agttccccaa cttcaccttc cgggacatcg
        441 840
E--> 443 agtttgagct cctggactac ggaccaaacg ggatgctgct ccctaaagaa gggaggctgg
        444 900
E--> 446 agaangtgta cgatgccctc aaggacgccc accccaagct ccacgtctac aagaaggagg
        447 960
E--> 449 cgttccccga ggccttccac tacgccaaca accccagggt cacacccctg ctgatgtaca
        450 1020
E--> 452 gcgaccttgg ctacgtcatc catgggagaa ttaacgtcca gttcaacaat ggggagcacg
        453 1080
E--> 455 gctttgacaa caaggacatg gacatgaaga ccatcttccg cgctgtgggc cctagcttca
        456 1140
E--> 458 gggcgggcct ggaggtggag ccctttgaga gcgtccacgt gtacgagctc atgtgccggc
        459 1200
E--> 461 tgctgggcat cgtgcccgag gccaacgatg ggcacctagc tactctgctg cccatgctgc
        462 1260
E--> 464 acacagaatc tgctcttccg cctgatggaa ggcctactct cctgcccaag ggaagatctg
        465 1320
E--> 467 ctctcccgcc cagcagcagg cccctcctcg tgatgggact gctggggacc gtgattcttc
        468 1380
E--> 470 tgtctgaggt cgcataacgc cccatggctc aaggaagccg ccgggagctg cccgcaggcc
        471 1440
E--> 473 ctgggccggc tgtctcgctg cgatgctctg ctggtcgcgg acggaccctg cctccccagc
        474 1500
```

```
RAW SEQUENCE LISTING          DATE: 11/01/2006
PATENT APPLICATION:  US/10/533,906     TIME: 12:17:24

           Input Set : A:\PTO.SS.txt
           Output Set: N:\CRF4\11012006\J533906.raw

E--> 476 ttatcccagg ccagaggctg catgccactg tccccggcag cgccaacccc tgcttggctg
     477 1560
E--> 479 ttatggtgct ggtaataagc ctcgcagccc aggtccagag cccccggcga gccggtccca
     480 1620
E--> 482 taaccggccc cctgcccctg cccctgctcc tgctcctccc cttcgggccc cctcctcctg
     483 1680
E--> 485 caaaacccgc tcccgaagcg gcgctgccgt ctgcagccac gcgggggcgc gcgggagctc
     486 1740
E--> 488 tgcgggcgct ggaacctgca gacccggcct cggtcagctg ggaggggccc gccccggcac
     489 1800
E--> 491 aaagcaccca tgggaataaa ggccaagccg cgacagtcag caaaaaaaaa aaaaaaaaaa
     492 1860
E--> 494 aaaaaaaaaa aaaaaaaa
     495 1878
     654 <210> SEQ ID NO: 10
     655 <211> LENGTH: 27
     656 <212> TYPE: DNA
     657 <213> ORGANISM: Unknown
     659 <220> FEATURE:
     660 <223> OTHER INFORMATION: Unknown
     662 <400> SEQUENCE: 10
E--> 663 ggcccagcat gagaggcccg gccgtcc
     664 27
     667 <210> SEQ ID NO: 11
     668 <211> LENGTH: 27
     669 <212> TYPE: DNA
     670 <213> ORGANISM: Unknown
     672 <220> FEATURE:
     673 <223> OTHER INFORMATION: Unknown
     675 <400> SEQUENCE: 11
E--> 676 ggacggccgg gcctctcatg ctgggcc
     677 27
     680 <210> SEQ ID NO: 12
     681 <211> LENGTH: 20
     682 <212> TYPE: DNA
     683 <213> ORGANISM: Unknown
     685 <220> FEATURE:
     686 <223> OTHER INFORMATION: Unknown
     688 <400> SEQUENCE: 12
E--> 689 taatacgact cactataggg
     690 20
     693 <210> SEQ ID NO: 13
     694 <211> LENGTH: 18
     695 <212> TYPE: DNA
     696 <213> ORGANISM: Unknown
     698 <220> FEATURE:
     699 <223> OTHER INFORMATION: Unknown
     701 <400> SEQUENCE: 13
E--> 702 tccgagatct ggacgagc
```

Same

Same error

RAW SEQUENCE LISTING   DATE: 11/01/2006
PATENT APPLICATION: US/10/533,906   TIME: 12:17:24

        Input Set : A:\PTO.SS.txt
        Output Set: N:\CRF4\11012006\J533906.raw

        703 18
        706 <210> SEQ ID NO: 14
        707 <211> LENGTH: 40
        708 <212> TYPE: DNA
        709 <213> ORGANISM: Unknown
        711 <220> FEATURE:
        712 <223> OTHER INFORMATION: Unknown
        714 <400> SEQUENCE: 14
E--> 715 ggcccgagac ggggtgaagg cacgctacat gaccccgcc 40
        716 40
        719 <210> SEQ ID NO: 15
        720 <211> LENGTH: 23
        721 <212> TYPE: DNA
        722 <213> ORGANISM: Unknown
        724 <220> FEATURE:
        725 <223> OTHER INFORMATION Unknown
        727 <400> SEQUENCE: 15
E--> 728 tggcccgtgg agtccggctc ccc   23
        729 23
        746 <210> SEQ ID NO: 17
        747 <211> LENGTH: 31
        748 <212> TYPE: DNA
        749 <213> ORGANISM: Unknown
        751 <220> FEATURE:
        752 <223> OTHER INFORMATION: Unknown
        754 <400> SEQUENCE: 17
E--> 755 atggatccat gagaggcccg gccgtcctcc t   31
        756 31
        759 <210> SEQ ID NO: 18
        760 <211> LENGTH: 31
        761 <212> TYPE: DNA
        762 <213> ORGANISM: Unknown
        764 <220> FEATURE:
        765 <223> OTHER INFORMATION Unknown
        767 <400> SEQUENCE: 18
E--> 768 acgtcgactt accagcacca taacagccaa g   31
        769 31
E--> 774 1

Same Error

deleted

VERIFICATION SUMMARY   DATE: 11/01/2006
PATENT APPLICATION: **US/10/533,906**   TIME: 12:17:25

Input Set : **A:\PTO.SS.txt**
Output Set: **N:\CRF4\11012006\J533906.raw**

```
L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:154 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2
M:254 Repeated in SeqNo=2
L:401 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:5
M:254 Repeated in SeqNo=5
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:900
L:663 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:27 SEQ:10
L:676 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:27 SEQ:11
L:689 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:20 SEQ:12
L:702 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:13
L:715 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:40 SEQ:14
L:728 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:23 SEQ:15
L:755 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:31 SEQ:17
L:768 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:31 SEQ:18
M:254 Repeated in SeqNo=18
```